SENNHEISER

Set 810

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Instruction Manual
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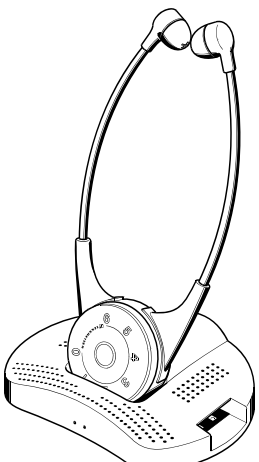


SET 810

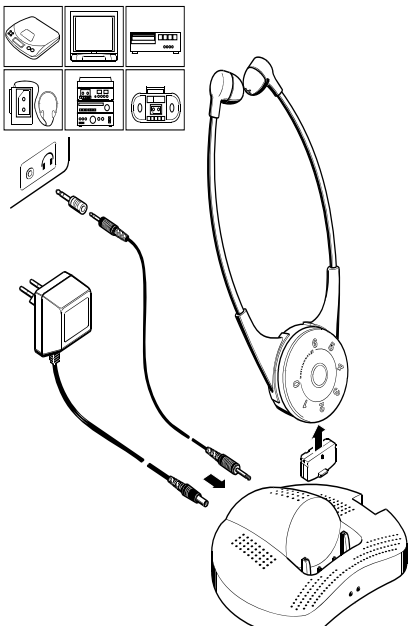
Thank you for choosing Sennheiser! Over half a century of accumulated expertise in the design and manufacture of high-quality audio equipment has made Sennheiser a world leader in the field of audiology.

The SET 810 is an assistive listening system for your radio, TV, hi-fi system or similar sound sources at the volume you choose. The system allows you to move around freely without the constrictions of cables within the room where the transmitter is placed. The system uses invisible infrared light for sound transmission.

Delivery includes

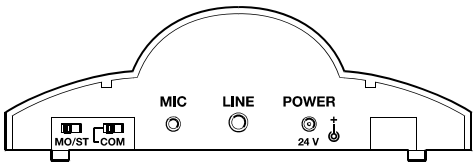
The Set 810 consists of the following components and accessories:

- Stethoset receiver RI 810
- Transmitter (charging unit) TI 810
- Rechargeable battery BA 151
- Power supply NT 810
- Connecting cable for headphone output
- Adapter for SCART socket (except USA/Canada)
- Adapter for RCA sockets (USA/Canada only)
- Replacement ear pads
- Instruction manual



Connecting the transmitter (charging unit)

The rear of the transmitter is fitted with two audio inputs: A socket (LINE) for connection to the audio output or the headphone socket on your TV, and a microphone socket (MIC).



Plug in one end of the connecting cable to the audio output or the headphone socket on your TV, and the other end to the LINE socket on the transmitter.

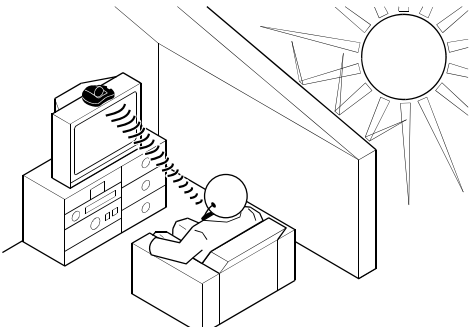
If your TV set is fitted with a SCART socket, use the supplied adapter.
If your TV does not have a headphone or SCART socket, you can use an external microphone which is described in the section ACCESSORIES.

Only use one of the two audio inputs on the transmitter (MIC or LINE).

Connect the power cable to the POWER socket on the transmitter. Plug the power supply into a household electrical outlet.

Where to place the transmitter

Place the transmitter so that the infrared light beam is pointed directly at the receiver, i.e. there should be no obstacles in the light path between transmitter and receiver. Guide the cables backwards.



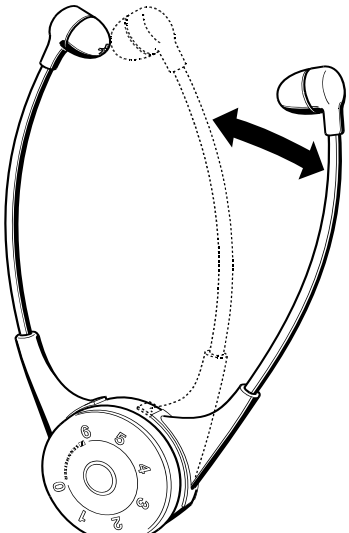
Avoid exposure to direct sunlight. Direct sunlight may interfere with the reception and may damage the transmitter.

Pull the power supply unit out of the electrical outlet when the unit will not be used for extended periods of time.

Using the stethoset receiver

When putting the stethoset receiver on, make sure the operating control is pointing downwards and the letters are at the front.

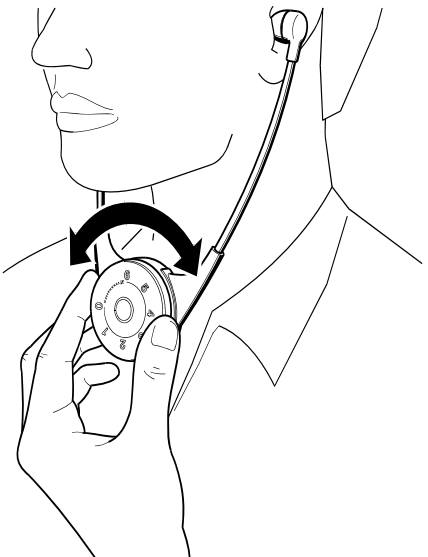
The stethoset receiver automatically turns on if you pull the earbows apart.



Adjusting the volume

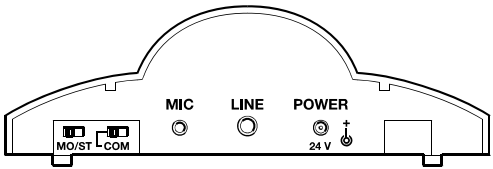
Adjust the receiver's volume with the operating control. Make sure your hand doesn't cover the operating control completely. This may prevent interference-free reception.

If you are not using the stethoset receiver, store it on the transmitter so that the battery can be recharged.



Turning the automatic compression system on

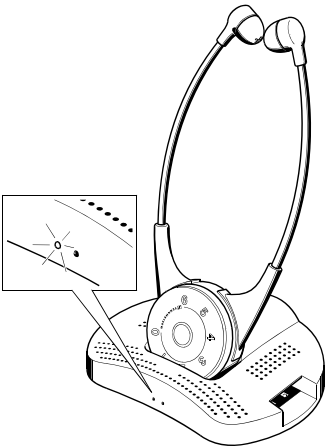
Use the COM switch (compression) at the rear of the transmitter to turn the automatic compression system on. This system reproduces soft passages louder and decreases loud sounds. Choose the setting that suits your listening preferences.



Use the MO/ST switch to choose between mono and stereo transmission. For mono TVs and when using the MKE 800 TV microphone, the switch must be set to mono (MO).

Charging the battery

Place the receiver into the transmitter's charging compartment, with the operating control at the front. The left LED on the transmitter must light up.



Charge the battery for 24 hours before you use it for the first time. The normal charging time is 4-5 hours. A fully charged battery has an operating time of approx. 4 hours.

Always store the receiver on the transmitter to ensure that it is fully charged. The transmitter is automatically turned off by the charging process. The transmitter automatically switches to trickle charging so that the battery cannot be overcharged. The receiver can remain in the charging compartment even when the battery has been fully charged.

Additional information

This system uses infrared light which is emitted by the transmitter and received by the stethoset receiver. Please note that infrared light emitted by other light sources may interfere with the useful signal of the SET 810. If the light path between transmitter and receiver is obstructed by clothing such as scarves etc., the reception may also be disturbed.

Varnish or furniture polish may degrade the rubber feet of the transmitter. Place the transmitter on a nonslip pad to avoid potential staining of furniture.

Delivery includes a pair of replacement ear pads. If necessary, remove the old ear pads and slide on the new ones.

Use a soft cloth for cleaning the units. Do not use abrasive cleaners.

According to today's scientific knowledge, the infrared light emitted by this unit is not harmful to humans or animals.

WARNING:

When people use headphones, they tend to choose a higher volume than with loudspeakers. However, if your hearing has deteriorated and you need to rely on an assitive listening system, please avoid listening at high volume levels for a long time. Please protect your hearing.

Accessories

Only use original Sennheiser spare parts and accessories.

ATTENTION: Components from other manufacturers (e.g. for power supply or battery) may cause damage to the unit and will invalidate the waranty.

The following accessories are available from your authorized dealer:

Rechargeable battery	BA 151
Charger	L 151-2
Stethoset receiver	RI 810
Clip-on receiver with audio socket	RI 810 S
Transmitter	TI 810
External microphone	MKE 800 TV

BA 151 rechargeable battery

By using a spare accupack, you can use the stethoset receiver for more than four hours of continuous operation. Always store the spare accupack in the small charging compartment at the right of the transmitter. The right LED on the transmitter lights up green to show charging is taking place. When charging an battery in the small charging compartment, the charging time is 10-12 hours.

A battery has a service life of 1-2 years and should be replaced if the operating time decreases.

Sennheiser batteries can be recycled. Please dispose of the battery as special waste or return them to your specialist dealer. To protect the environment, only dispose of totally exhausted accupacks which cannot be recharged.

L 151-2 charger

Spare batteries can be charged via the L 151-2 charger.

RI 810 additional stethoset receiver

One transmitter can transmit to several receivers. Additional RI 810 receivers are available from your authorized dealer.

RI 810 S clip-on receiver

Instead of earbows, this receiver features a socket for connecting a headphone or a connecting cable which allows its use with a hearing aid.

MKE 800 TV external microphone

If your TV doesn't have a headphone output, SCART or RCA socket, you can use your SET 810 together with the MKE 800 TV microphone.

Fix the microphone to the loudspeaker of your TV by means of Velcro tape. Connect the microphone connector to the MIC socket on the transmitter and set the MO/ST switch to mono (MO).

If problems occur...

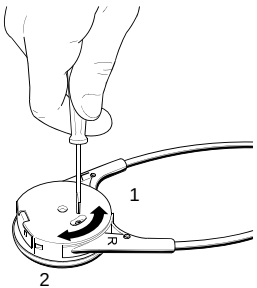
- Are all jack plugs connected correctly?
- Are the receiver and sound source turned on and is the volume of the receiver and sound source sufficient?
- Have you pulled the earbows apart?
- Is the battery inserted properly into the receiver?
- Have you charged the battery for at least 20 minutes?
- Are the transmitter's LEDs pointed at the receiver?
- Is the receiver's operating control pointed at the transmitter?
- Is there a free line of sight between transmitter and receiver?
- Should the problem persist, please contact your authorized dealer for assistance.

Never open the unit!

Additional information for hearing aid acousticians

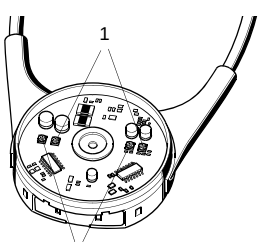
Adjusting the earbow pressure

Loosen the screw at the rear of the stethoset receiver. Move the screw in the long hole to the desired position (continuously adjustable).
1 = Low earbow pressure
2 = High earbow pressure
Tighten the screw.



Adjustments for hearing disabilities

Turn the operating control fully counterclockwise (0). Remove the operating control by carefully lifting it over the "snap-in pins" on the inside. Use the 4 potentiometers on the circuit board to individually adjust the max. volume and the bass response for the left and right headphone system.
1 = Max. volume R/L
2 = Bass response R/L



Adjusting the max. volume:

Potentiometer turned fully counterclockwise	0 dB
Potentiometer turned fully clockwise	125 dB

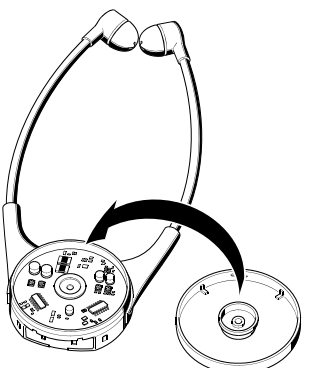
Adjusting the bass response:

Potentiometer turned fully counterclockwise	attenuation of -25 dB at 100 Hz
Potentiometer turned fully clockwise	attenuation 0 dB

The adjustments can also be made when the receiver is being used.

When replacing the operating control, make sure the "projections" on the inside of the operating control point in the direction of the earbows.

After replacing the operating control, synchronize the operating control with the volume control by once turning it fully counterclockwise and then fully clockwise.



Technical Data

System

Modulation	FM, stereo
Carrier frequencies	2.3 / 2.8 MHz
AF frequency response	40 Hz ..... 15 kHz
S/N ratio	60 dB A rms

Transmitter

AF input voltage	50 mV ..... 5 V
Audio input	3.5 mm jack, stereo/mono
Microphone socket	2.5 mm jack, mono
Charging time for battery	approx. 4 h
Charging time (spare battery)	approx. 10-12 h
Power supply	24 V DC via NT 810 mains unit
Weight	approx. 94 g (without battery)
Dimensions	diameter: 3.8 inch, heigth: 1.1 inch

Receiver

Max. sound pressure level	> 125 dB
Power supply	2.4 V via BA 151 battery
Operating time	more than 4 hours per battery
Weight	approx. 60 g (without battery)
Dimensions	length: 5.8 inch, width: 3.1 inch, heigth: 0.6 inch

Manufacturer declarations

CE Declaration of Conformity

This equipment is in compliance with the essential requirements and other relevant provisions of Directives 2006/95/EC. The declaration is available on the internet site at www.sennheiser.com.
Before putting the device into operation, please observe the respective country-specific regulations!

WEEE Declaration

Your Sennheiser product was developed and manufactured with highquality materials and components which can be recycled and/or reused. This symbol indicates that electrical and electronic equipment must be disposed of separately from normal waste at the end of its operational lifetime.
Please dispose of this product by bringing it to your local collection point or recycling centre for such equipment. This will help to protect the environment in which we all live.

Batteries

The supplied rechargeable batteries can be recycled. Please dispose of rechargeable batteries as special waste or return them to your specialist dealer. In order to protect the environment, only dispose of exhausted batteries.

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